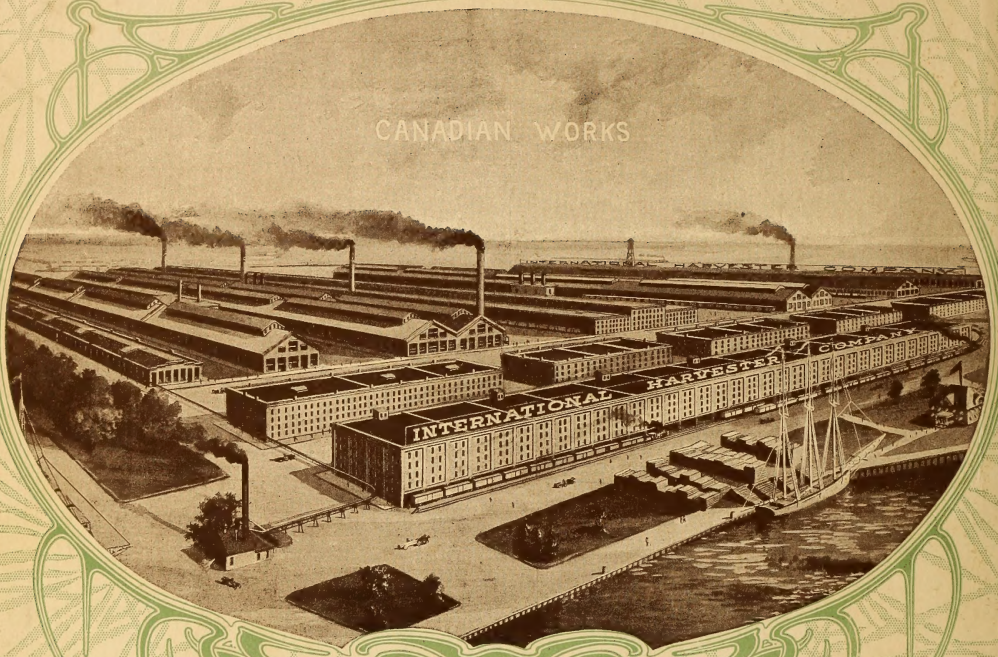

IT TAKES THE PALM."

CANADIAN WORKS



"It takes the Palm"

1831==McCORMICK==1904

WHILE the history of wheat extends over a period of more than forty centuries, the history of harvesting machines embraces less than one century. The McCormick reaper which was operated successfully in the harvest of 1831 was the first practical harvesting machine, and for seventy-three years the McCormick has been awarded the palm of excellence by reason of its superb and splendid work in the grain and grass fields of the world.

The McCormick is the machine that has triumphantly stood the test of time, and to-day represents the highest attainment in the manufacture of harvesting machines.

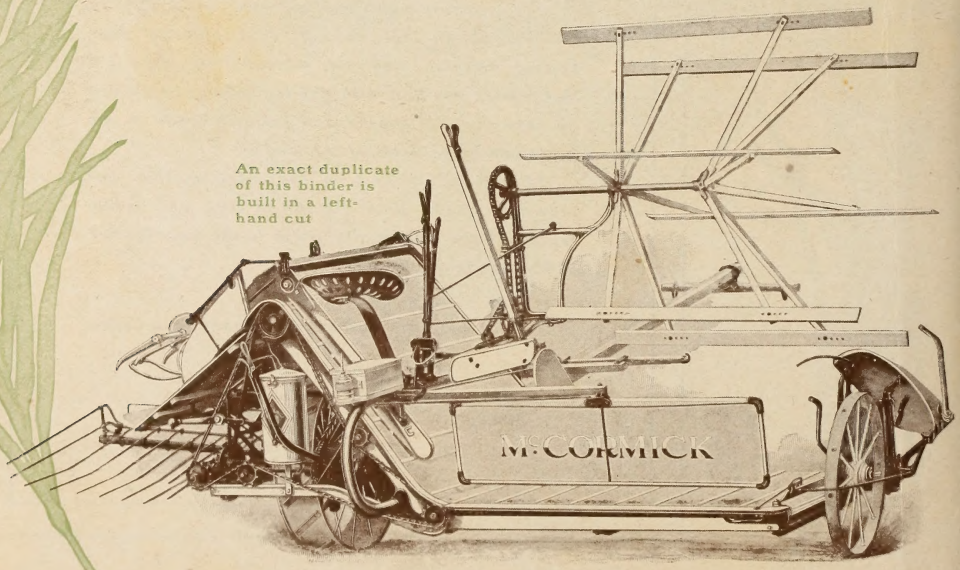
International Harvester Company of America
(Incorporated)

Chicago, U. S. A.,
January 1, 1904

"It takes the Palm"

McCORMICK LIGHT DRAFT BINDER FOR 1904

For the season of 1904 the new McCormick binder is offered to agriculturists as a binder that represents the highest attainment in the manufacture of harvesting machines. The 1904 McCormick binder embodies the latest improvements, is correctly designed, substantially built, and will cut and bind small grain wherever a machine can be operated. The machine is light in draft and easy to operate—easy for the driver and easy for the team. Among the splendid features of the new McCormick binder may be mentioned the following: Strong gears, simple knotter, adjustable deck and windboard, main chain tightener, hardened needle parts, folding dividers, steel tube yoke, and splendid binding attachment which forms evenly butted bundles, bound in the middle with unvarying regularity. Neither expense nor labor has been spared to keep the McCormick at the very forefront in all the details of construction that characterize a successful binder. The same sterling qualities that have brought the McCormick triumphantly through seventy-two harvests will bring success to the new McCormick binder in the harvest of 1904. The name McCormick is the farmer's protection—that name is a synonym of success and the forerunner of prosperity.



An exact duplicate of this binder is built in a left-hand cut

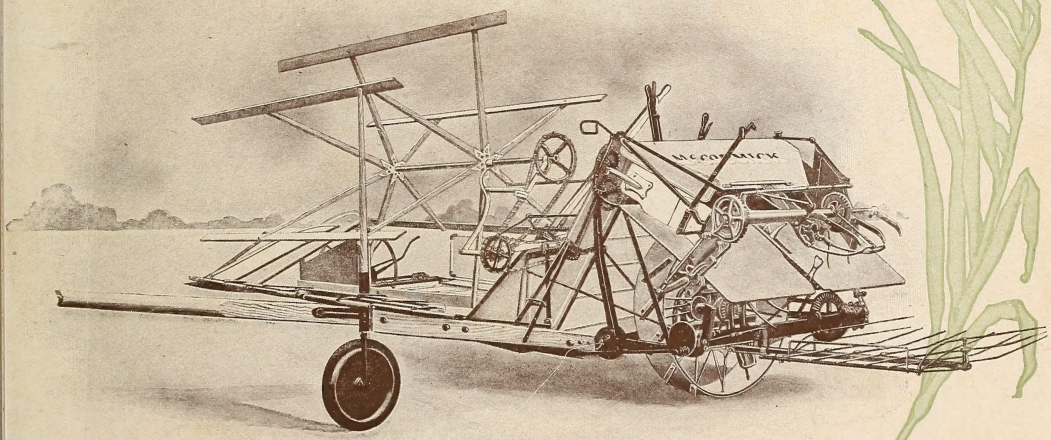
Rear view of the new McCormick right-hand binder

McCORMICK WIDE-CUT BINDER WITH TONGUE-TRUCK

Where small grain is grown extensively there is considerable demand for a larger binder, and the McCormick wide-cut machine is specially constructed to meet this demand. The wide-cut machine is equipped with a tongue truck which greatly reduces the draft, while imparting a steady and smooth motion to the binder, which relieves both the machine and team of any undue strain. The tongue does not lash the horses, neither is there any neck weight or side draft. The machine turns corners easily and quickly. For these reasons the owner of a wide-cut McCormick binder can cut more grain in a given length of time than can be cut with a binder having the ordinary width of cut.

When it is desired to move the wide-cut binder from field to field, the machine is mounted on the transport in the usual manner, the tongue being fastened to the underside of the platform with spring catches, while the castor wheel runs on the ground. The lines are held away from the reel by the pole extending upward from the stub tongue.

The tongue-truck is built especially for the McCormick wide-cut binder and is included in the price of same, but this truck can also be used on any regular McCormick binder and will be supplied for such machines only on special order at a special price.



Front View of McCormick wide-cut binder, with tongue-truck

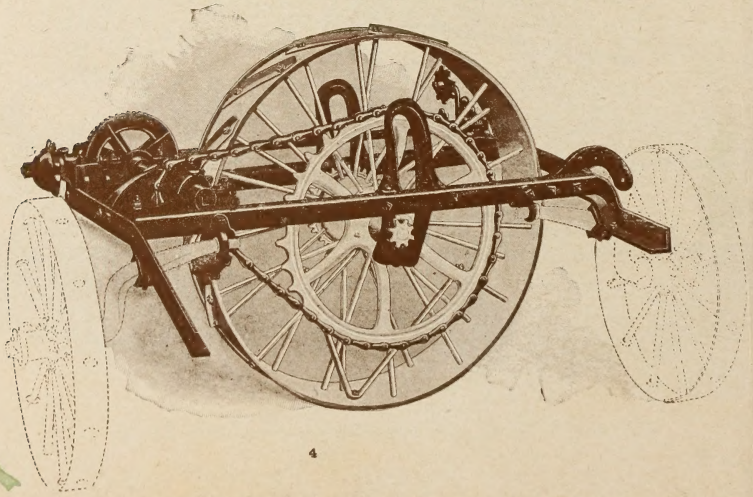
MAIN WHEEL

Great strength is the chief characteristic of the main wheel on the new McCormick binder for 1904. The wheel is not only strong, but it is also high and wide—strong enough to support the machine, and high and wide enough to secure the necessary traction to operate the working parts. The main wheel supports nearly all the weight of the machine, and the wheel is so constructed that the weight is distributed equally on all of the spokes in the wheel, which easily sustains the weight and withstands the strain to which the machine may be subjected, and hence the various working parts of the machine are always held in perfect alignment. The rim of the main wheel is made of cold rolled heavy steel plate, which can not be bent out of shape. The pronounced success of the McCormick binder operating under adverse conditions in rough or muddy fields is largely due to the splendid construction of the main wheel.

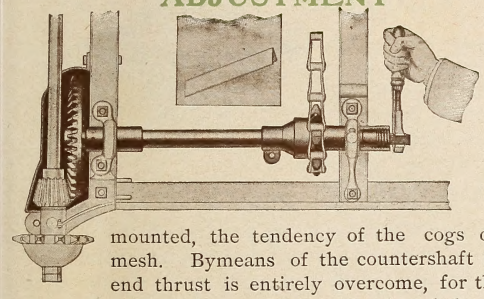
BINDER FRAME

As shown in the accompanying illustration, heavy square steel tubes comprise both sides of the main frame on the new McCormick binder, while the front and rear sills are made of heavy angle steel. Therefore, the main frame, like the main wheel, is exceptionally strong and substantial, thus insuring both the rigidity of the machine and perfect alignment of the bearings. During harvest a binder is frequently subjected to severe strains, for which reason the main frame and the main wheel on the McCormick are specially constructed to secure sufficient strength to withstand any torsional stress or undue strain that may be encountered in the field.

Both the main wheel and main frame are doubly strong



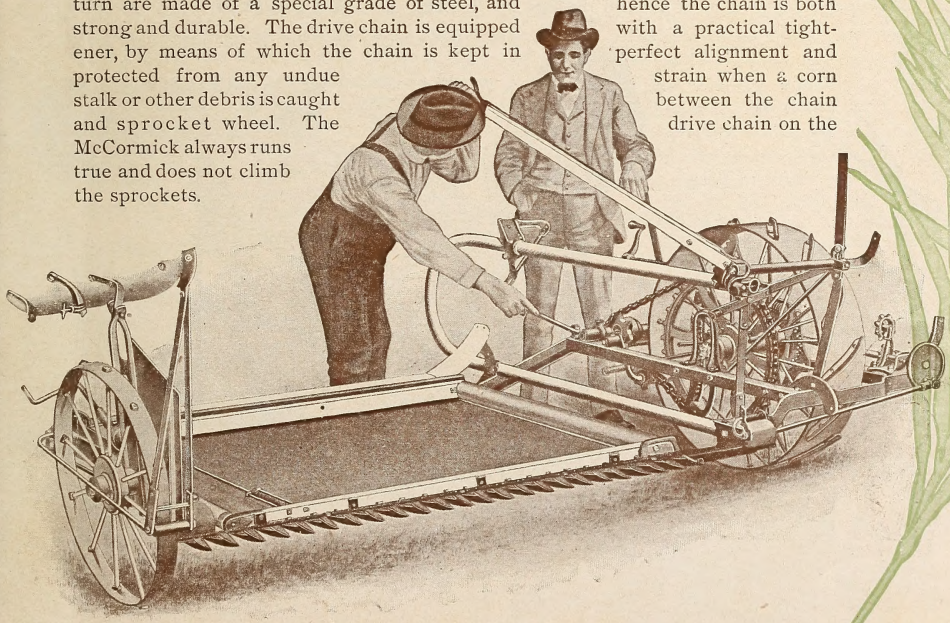
COUNTER-SHAFT ADJUSTMENT



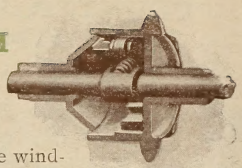
A sectional view of the countershaft adjustment on the McCormick binder is shown in the accompanying illustration. Owing to the end thrust of the shaft on which the bevel gear is mounted, the tendency of the cogs on bevel gears is to work out of mesh. Bymeans of the countershaft adjustment on the McCormick this end thrust is entirely overcome, for the bevel gears can always be held in perfect mesh by adjusting the threaded end of the countershaft. This practical device is found only on the McCormick binder and is one of the numerous features that have made the McCormick the farmers' favorite machine.

DRIVE CHAIN

Superior wearing qualities characterize the drive chain on the new McCormick binder. The links have a large bearing surface, while the pins on which the links turn are made of a special grade of steel, and hence the chain is both strong and durable. The drive chain is equipped with a practical tightener, by means of which the chain is kept in perfect alignment and protected from any undue strain when a corn stalk or other debris is caught between the chain and sprocket wheel. The drive chain on the McCormick always runs true and does not climb the sprockets.



ROLLER CLUTCH



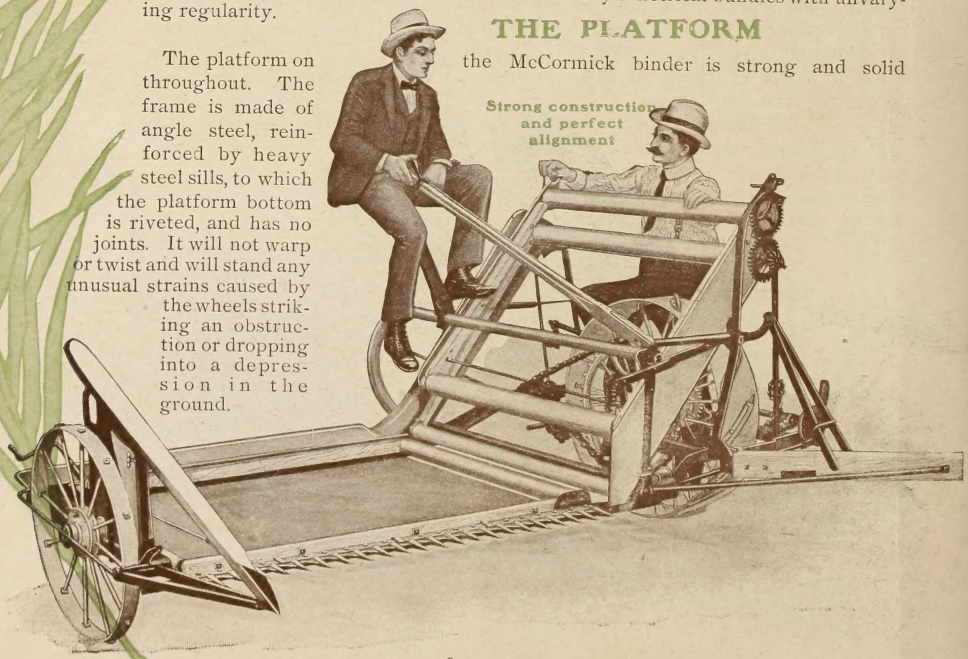
The McCormick binder is thrown in or out of gear instantly by means of the roller clutch, which is both simple and efficient. The clutch is covered to prevent the winding of straw and to protect the clutch from dirt, and thus prolongs the life of the machine.

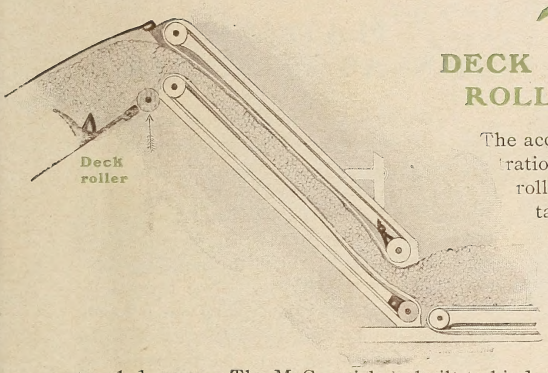
ELEVATORS

On the new McCormick binder the elevators are sufficiently wide to allow the grain to be delivered in good condition for binding, even though the straw is long and the grain tangled. The tube yoke, which extends from the front of the machine to the rear and back again, holds the lower end of the elevators perfectly rigid. This substantial construction prevents the elevators from bending or twisting, so that the elevator canvases run smoothly and easily. For this reason the slats do not rip off, neither does the machine choke in heavy or tangled grain. The canvases on the upper and lower elevators are speeded exactly the same, so that the grain is carried to the binder deck in a smooth and even flow, and the uniform delivery of the grain to the packers enables the machine to form symmetrical bundles with unvarying regularity.

THE PLATFORM

The platform on the McCormick binder is strong and solid throughout. The frame is made of angle steel, reinforced by heavy steel sills, to which the platform bottom is riveted, and has no joints. It will not warp or twist and will stand any unusual strains caused by the wheels striking an obstruction or dropping into a depression in the ground.



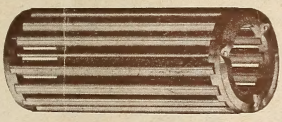


DECK ROLLER

The accompanying illustration shows the deck roller, which is an important feature on the new McCormick binder, and which greatly assists in maintaining a uniform delivery to the binding attachment when the machine is cutting in light or tangled grain. The McCormick is built to bind symmetrical bundles, no matter in what condition the grain to be harvested may be.

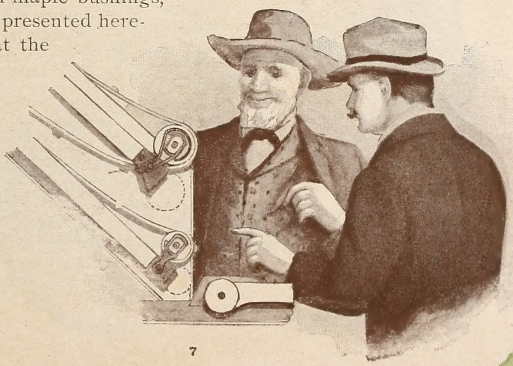
ROLLER BEARINGS

The roller bearings used on the new McCormick binder are made of high grade hard steel and are finished so accurately and have such a smooth surface that they turn without friction. The rollers are held together in a cage, which prevents their getting out of alignment or falling apart when it is necessary to remove the bearings from any part of the machine. Much of the lightness in draft for which the McCormick binder is so celebrated is due to the use of these roller bearings in both the main and grain wheels, as well as in many of the gearings and shaftings of the machine.



ELEVATOR CANVAS TIGHTENERS

Neither the dew nor rain can effect the canvases when they are loosened; hence the new McCormick binder is equipped with a practical device for loosening and tightening the elevator canvases. The lower elevator rollers are mounted on hinged boxes fitted with maple bushings, as shown in the illustration presented herewith, so that the canvases are loosened by simply lifting up the lower rollers. Any degree of adjustment may be secured by buckling the canvases, after which the rollers are returned to their normal position.

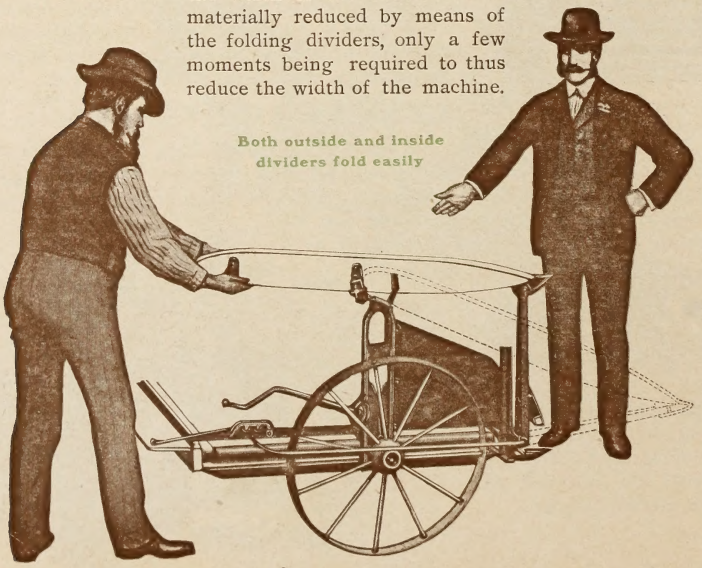


PLATFORM CANVAS TIGHTENER

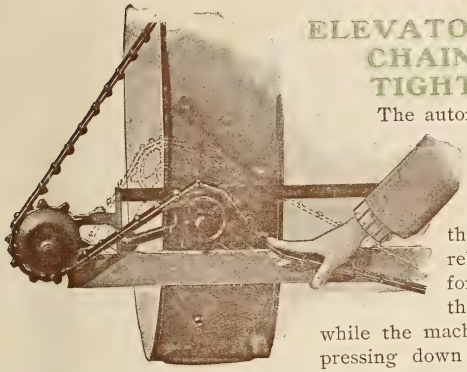
As shown in the accompanying engraving, the platform canvas tightener is manipulated by means of a small lever extending rearwardly from the outward end of the platform. By moving the lever toward the grain wheel the canvas is loosened and may be unbuckled, while moving the lever in the opposite direction tightens the canvas. The tightening device is equipped with a spring which makes both ends of the roller move an equal distance whether the canvas is to be tightened or loosened. If rain or dew should dampen the canvas sufficient to cause it to shrink, both ends of the roller will yield precisely the same, and therefore the canvas will not run out of line.

FOLDING DIVIDERS

Both the outside and inside dividers on the new McCormick binder can be folded, as shown in the accompanying illustration. When the machine is to be stored in a limited space or moved through narrow roadways, the width of the binder can be materially reduced by means of the folding dividers, only a few moments being required to thus reduce the width of the machine.



Both outside and inside dividers fold easily



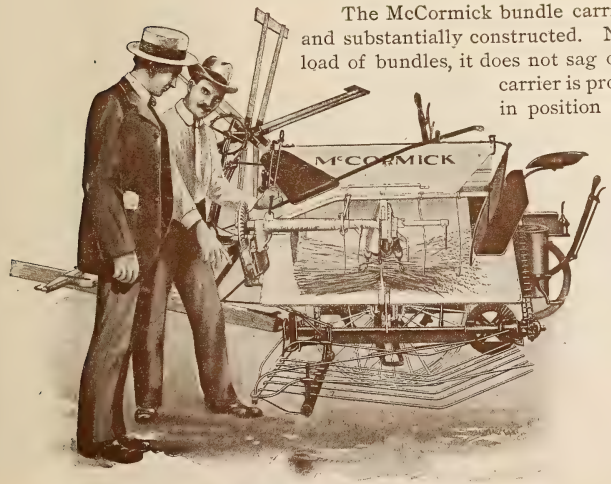
ELEVATOR CHAIN TIGHTENER

The automatic tightener for the elevator chain is shown in the illustration presented herewith. This tightener is simple and practical. Both the chain and sprocket wheels are relieved of all unnecessary strains, for the chain is kept running at the proper tension automatically while the machine is in operation. By simply pressing down the spring tightener the operator can loosen the chain and if necessary remove it from the sprocket wheels.

BINDING ATTACHMENT

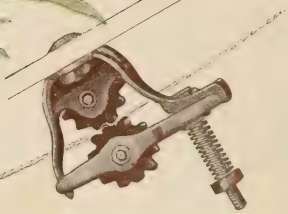
Perhaps the most important feature of a binder is the binding attachment. On the new McCormick binder, the binding attachment has a range of adjustment sufficiently ample to enable the machine to form and bind well shaped bundles in all conditions of grain, whether it be straight or tangled, thick or thin, tall or short. The binder lever enables the operator to readily shift the binding attachment so that the bands will be placed in the middle of the bundle regardless of the length of the grain being cut.

BUNDLE CARRIER



The McCormick bundle carrier is correctly designed and substantially constructed. No matter how heavy the load of bundles, it does not sag or drag the ground. The carrier is properly balanced and is held in position by a lock which is easily controlled by the driver. It requires only a slight pull in the stirrup of the foot treadle to throw the carrier lock off center, and instantly the bundles are placed gently on the ground. A strong spring assists the return of the carrier to its normal position. Another spring permits the carrier to swing back in passing any obstruction, thus preventing injury to this part of the machine.

ROLLER TWINE TENSION



The roller twine tension consists of two corrugated rolls held together by a spring, as shown in the accompanying illustration. This tension prevents any kinks or curls forming in the twine, which is easily drawn through between the rollers and always held in perfect tension. It is a time saver, and hence a money maker for the agriculturist.

BINDER NEEDLE

The illustration presented herewith shows the point of the improved needle used on the new McCormick binder. A case hardened steel roll is inserted in the point of this needle. The roll is held in position by a rivet and affords a smooth surface for the twine. The roll prolongs the life of the needle and can be renewed for only 5 cents when it becomes worn.

The two moving parts of the McCormick simple knotter

KNOTTER

Simplicity, accuracy, and durability characterize the McCormick knotter, which has only two moving parts. Case hardened material is used in the manufacture of the knotter hook, the twine disc and holder so that these important working parts have lasting wearing qualities. It is easy to keep the McCormick knotter properly adjusted, owing to the simplicity of its construction. For this reason no expense is incurred in keeping the knotter in good working order while the machine is in use. To insure unvarying regularity in tying knots, each completed knotter is thoroughly tested at the McCormick works.

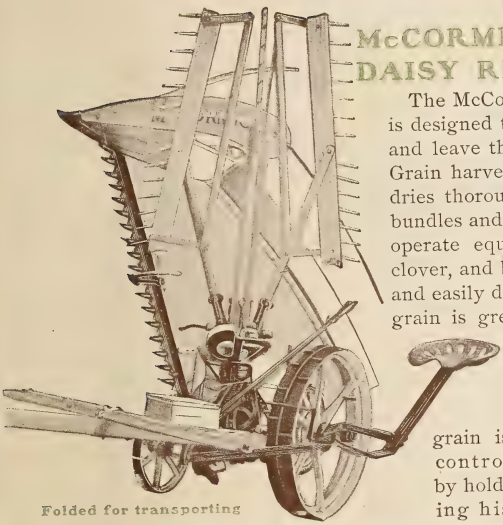
Testing the McCormick Knotter

REVERSIBLE TRIP HOOK

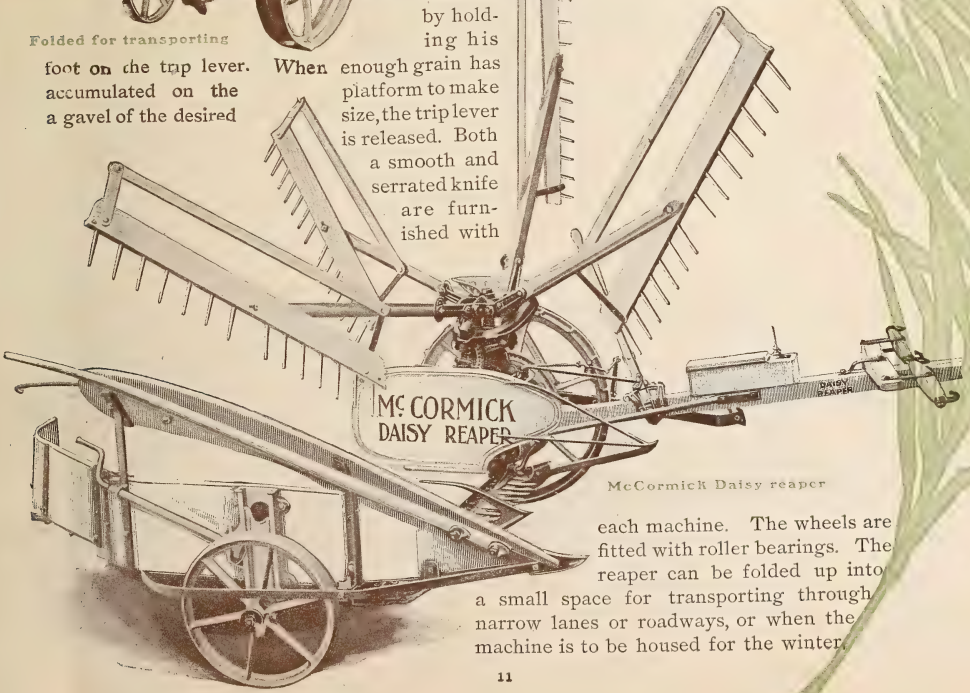
A trip hook adjuster on the new McCormick enables the operator to secure considerable range in the size of bundles, and if smaller bundles are desired the trip hook can be reversed to still further reduce the size of the bundle. Where the crop is not fully matured this feature will be found invaluable, for the grain will not be so liable to spoil in the shock when bound in small bundles.

McCORMICK DAISY REAPER

The McCormick Daisy reaper is designed to harvest small grain and leave the gavels on the ground. Grain harvested in this way cures and dries thoroughly before it is bound into bundles and shocked. The machine will operate equally well in wheat, oats, flax, clover, and buckwheat. It is light in draft and easily drawn by two horses. Where the grain is green or damp, the operator can regulate the rake-arms to deliver gavels of any size, or to make almost a continuous swath. Where the grain is light the operator can control the discharge of gavels by holding his foot on the trip lever. When enough grain has accumulated on the platform to make a gavel of the desired size, the trip lever is released. Both a smooth and serrated knife are furnished with each machine. The wheels are fitted with roller bearings. The reaper can be folded up into a small space for transporting through narrow lanes or roadways, or when the machine is to be housed for the winter.



Folded for transporting



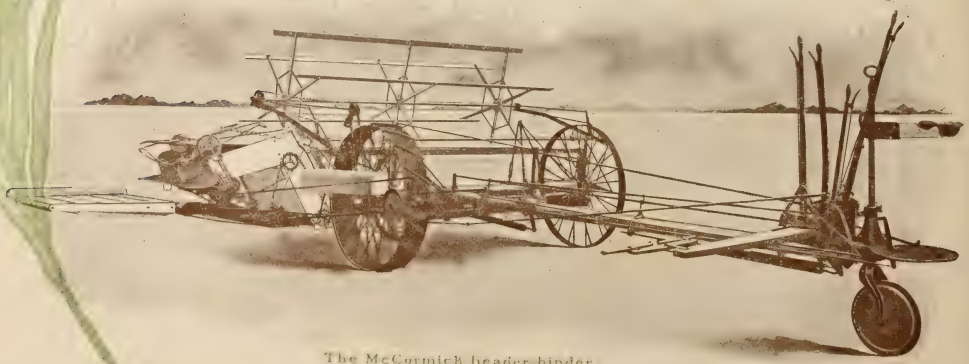
McCormick Daisy reaper

PITMAN SHIELD

The accompanying illustration shows the pitman shield on the new McCormick binder. This shield is connected with hinges and is easily opened by releasing the spring fastening. When closed it serves as a cover to protect the pitman head from dust and dirt. It contains an oil reservoir from which is supplied the lubricant necessary for this part of the binder. This device enables the operator to easily connect or disconnect the pitman.

McCORMICK HEADER-BINDER

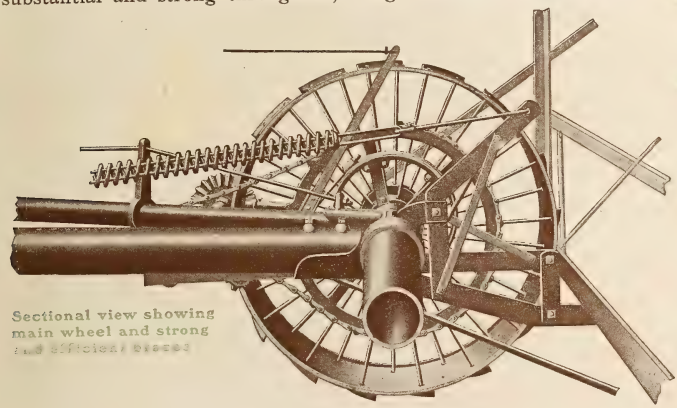
Many agriculturists prefer a wide-cut machine in localities where large areas are devoted to the growing of wheat, and the McCormick header-binder is specially designed to meet the requirements of such localities. The McCormick header-binder has given thorough satisfaction throughout the wheat-growing region of the Great West and the Argentine Republic. The machine cuts and binds the grain into bundles in much the same way as a regular binder. In general appearance the machine somewhat resembles the McCormick header, the detail in construction being changed to conform with the requirements of a first-class binder. In the field the McCormick header-binder will equal the superior work of the regular world-renowned McCormick binder.



The McCormick header-binder

THE McCORMICK HEADER

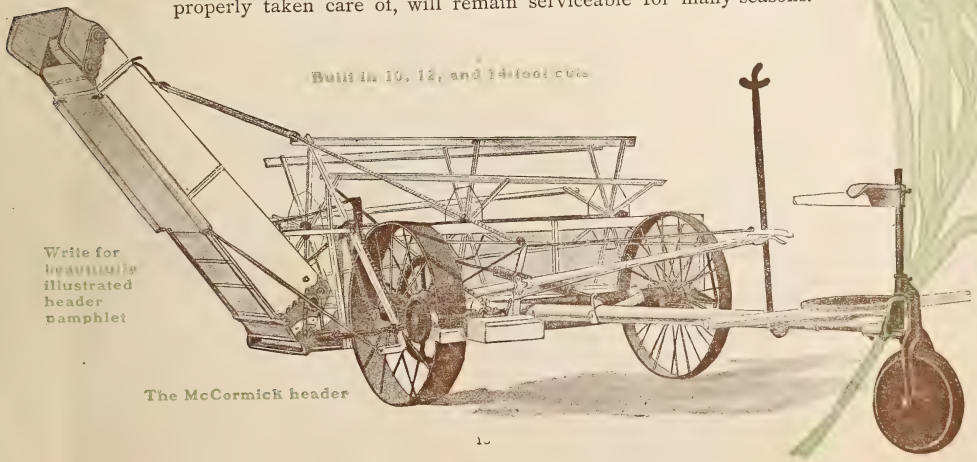
Where wheat is grown extensively many agriculturists prefer to harvest only the heads of the grain, and the McCormick header is specially constructed to enable wheat growers to harvest large areas quickly. The machine is built in 10, 12, and 14-foot cuts. It is substantial and strong throughout, being well braced and rigidly



Sectional view showing main wheel and strong and efficient braces

held together. McCormick roller bearings are fitted in all important journal boxes, which make the header an exceedingly light draft machine. It has high and wide wheels, strong steel elevators, large canvas rollers, and a substantial platform. In fields where a machine can be operated the McCormick header, when properly taken care of, will remain serviceable for many seasons.

Built in 10, 12, and 14-foot cuts



Write for beautifully illustrated header pamphlet

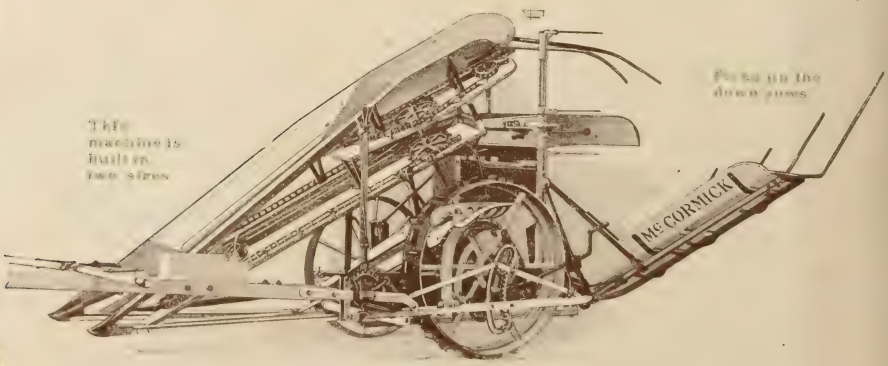
The McCormick header

"It takes the Palm"

McCORMICK CORN BINDER

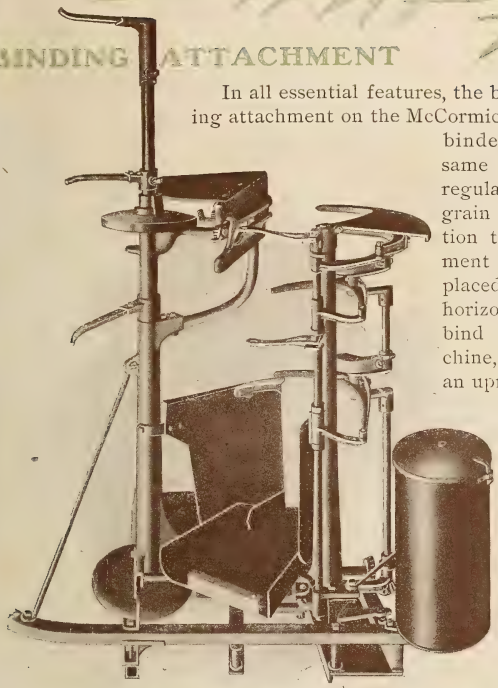
The McCormick corn binder is strongly and compactly built throughout, and the splendid work of this machine has made it a favorite wherever corn is grown. The machine is built on correct principles and operates successfully in all conditions of corn. The main frame consists of heavy square steel tubing with angle steel arms, thus forming a solid foundation to support the entire machine, which is held together so firmly and rigidly that it will withstand severe strains without injury. The McCormick corn binder works successfully in all conditions of corn. After the stalks are cut they stand erect on the binder table within easy reach of the three packers, which deliver them to the binder attachment without striking the ears, while the upper conveyor chains simultaneously carry the tops back. Ample room is provided for the ears to pass through without being caught by the packers and needle, which precludes the possibility of clogging the machine and wasting the corn. The bundle formed is square butted and straight. The machine will cut the stalks at a height varying from three to eighteen inches. The width of the McCormick corn binder conforms to the average width of the corn rows, rendering the use of the machine practical in nearly all fields. All important journal boxes are fitted with roller bearings, which decrease the draft very considerably. The conveyor chains have patented lock joints; the dividers are wide between the points; the band adjuster has a range of twelve inches; the cutting mechanism comprises two stationary knives and a sickle; the bundle carrier is both simple in design and strong in construction. The McCormick corn binder is the machine to buy for harvesting the corn crop and making corn growing profitable.

Works successfully in any condition of corn



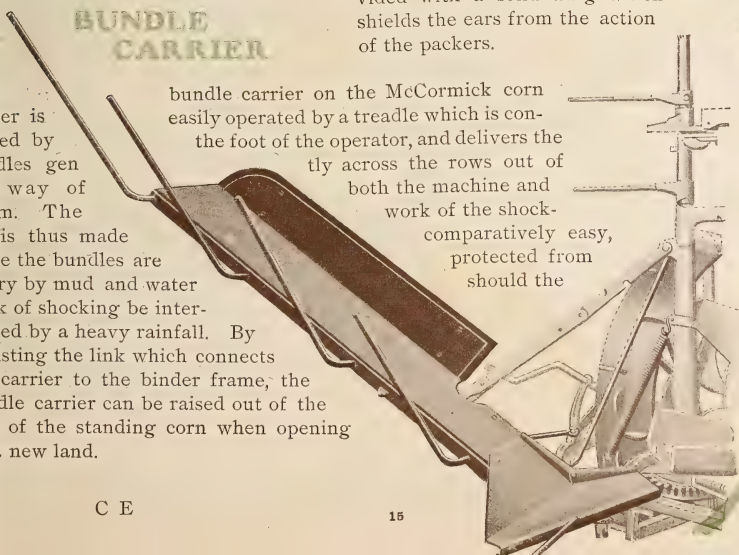
The McCormick corn binder

BINDING ATTACHMENT



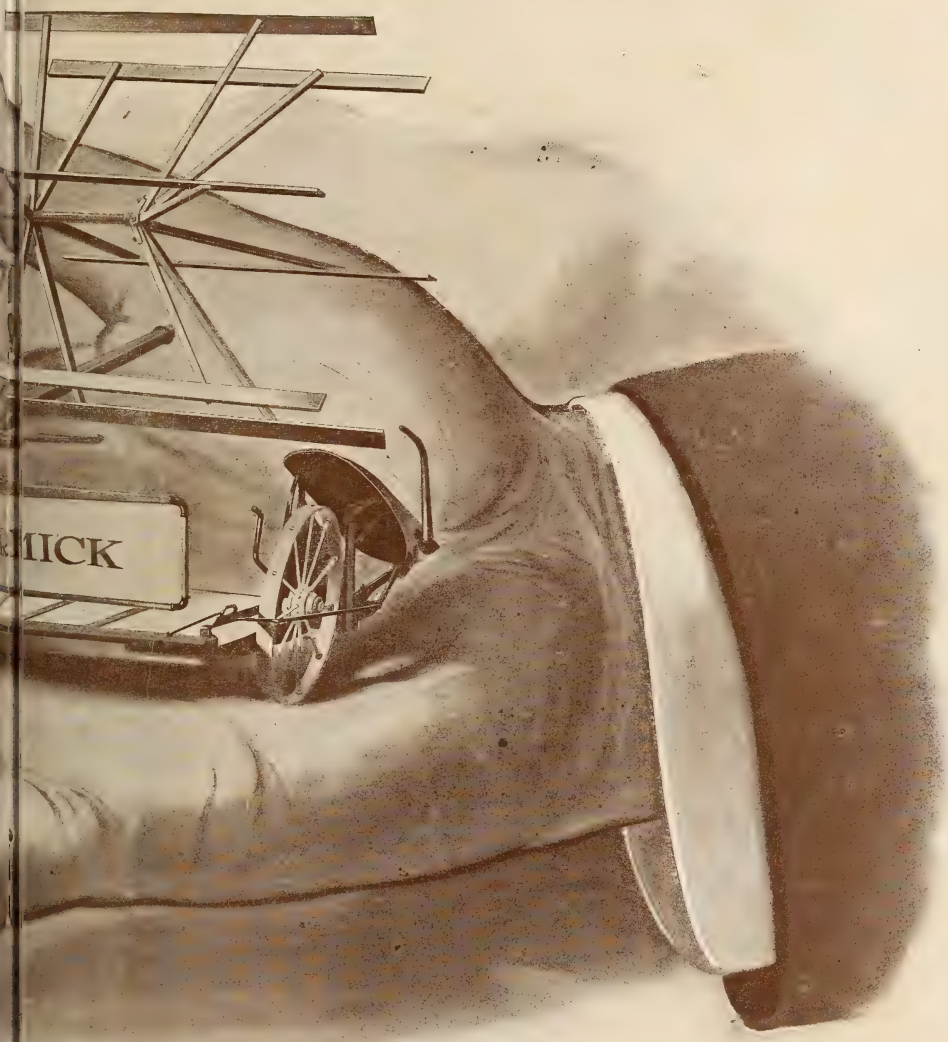
In all essential features, the binding attachment on the McCormick corn binder is the same as that used on the regular McCormick small grain binder, with the exception that the binding attachment on the corn binder is placed in a vertical instead of a horizontal position. To cut and bind corn successfully with a machine, the stalks must be handled in an upright or vertical position, which does not require any extra power for handling the corn, the stalks being kept in their normal position until bound into bundles and placed on the bundle carrier. The breastplate is fitted with a stop-finger which prevents the stalks from throwing the twine out of position and the discharging of any unbound bundles. The needle is provided with a solid wing which shields the ears from the action of the packers.

BUNDLE CARRIER



The bundle carrier on the McCormick corn binder is easily operated by a treadle which is controlled by the foot of the operator, and delivers the bundles gently across the rows out of the way of the team. Both the machine and the work of the shockers is thus made comparatively easy, while the bundles are protected from injury by mud and water should the work of shocking be interrupted by a heavy rainfall. By adjusting the link which connects the carrier to the binder frame, the bundle carrier can be raised out of the way of the standing corn when opening up a new land.

IT TAKES THE PALM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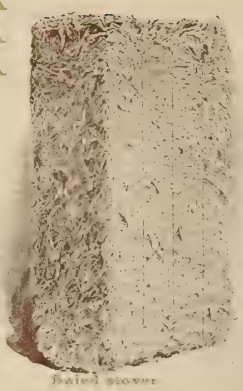
"It takes the Palm"

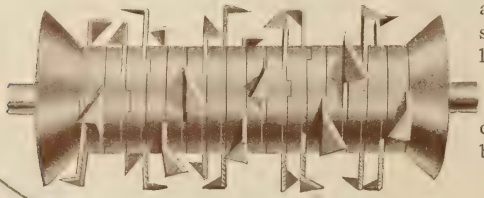
McCORMICK HUSKER AND SHREDDER



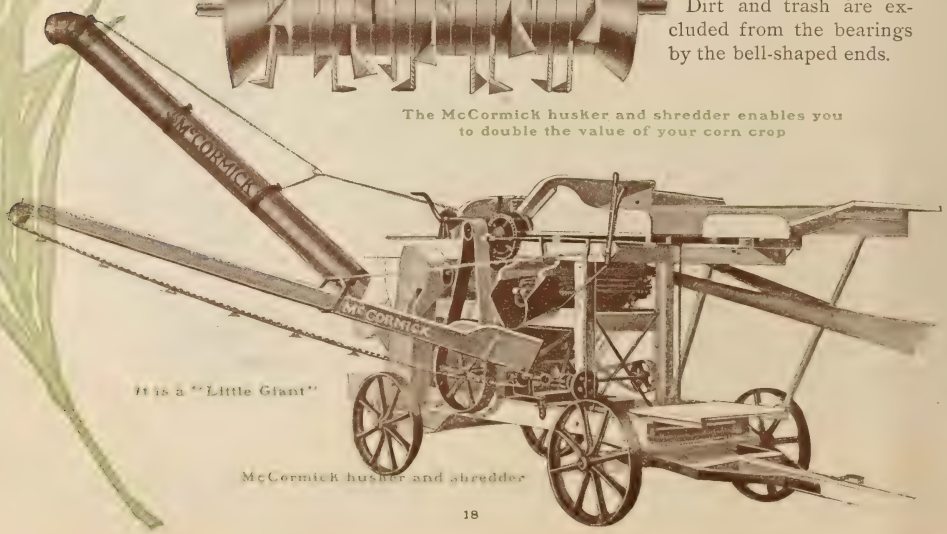
Baled stover

The McCormick "Little Giant" husker and shredder is presented in the illustration shown below. This machine husks the ears of corn and at the same time converts the stalks and fodder into an excellent and nutritious feed stuff, which when properly handled is as good or better than hay. The McCormick husker and shredder has made it possible to save all the corn crop—the ears as well as the stalks and fodder—shredding the latter into stover, so that practically the entire stalk is eaten by horses as well as cattle. Clean and well shredded stover is worth three times the same amount of unshredded stalks and fodder; and inasmuch as the stalks and fodder equal the ears in value, it will be readily understood how the McCormick husker and shredder enables the corn grower to double the value of his corn crop.

The McCormick shredder head combines a shredder and cutter. The serrated, radial portions of the blade split and shred the stalks, while the triangular portion cuts the shredded fodder into short lengths, and prevents winding of the twine. Dirt and trash are excluded from the bearings by the bell-shaped ends.



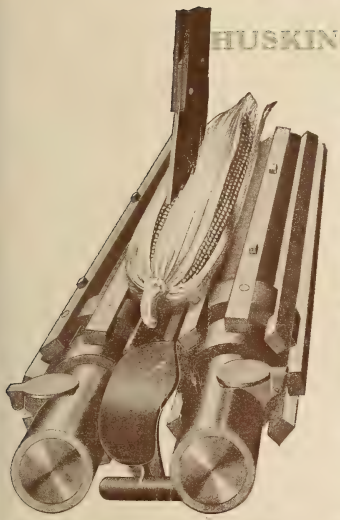
The McCormick husker and shredder enables you to double the value of your corn crop



It is a "Little Giant"

McCormick husker and shredder

HUSKING ROLLS



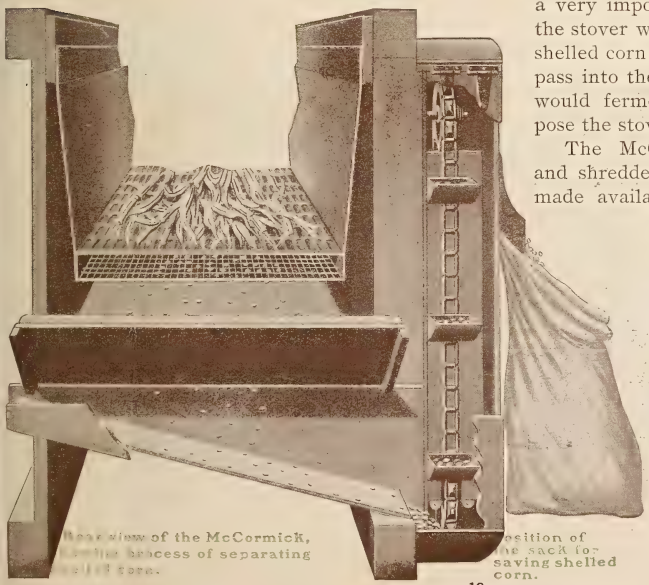
Reciprocator and husking rolls

The reciprocator and husking rolls on the McCormick husker and shredder are shown in the accompanying illustration. The interlocking bar rolls not only husk the corn cleanly, but they also husk it rapidly. The ears of corn are kept moving uniformly along the rolls by means of the reciprocator, which insures a uniform delivery of the ears to the carrier. The "Little Giant" machine is furnished with either four or six husking rolls.

CORN-SAVING DEVICE

The device for saving the shelled corn consists of a grain board and cleaner fan, both of which can be adjusted in accordance with the various conditions of the corn to be shredded. As shown in the illustration, the shelled corn drops into a chute after being cleaned, passing thence to the elevator, which delivers the corn into a sack at the side of the machine. This device for saving the shelled corn is a very important feature, as the stover would spoil if the shelled corn were allowed to pass into the mow, where it would ferment and decompose the stover.

The McCormick husker and shredder can readily be made available for hulling peas and beans, only slight changes being necessary to adjust the machine for this special work. A special circular explaining the changes to be made will be supplied on request.



Rear view of the McCormick, showing process of separating shelled corn.

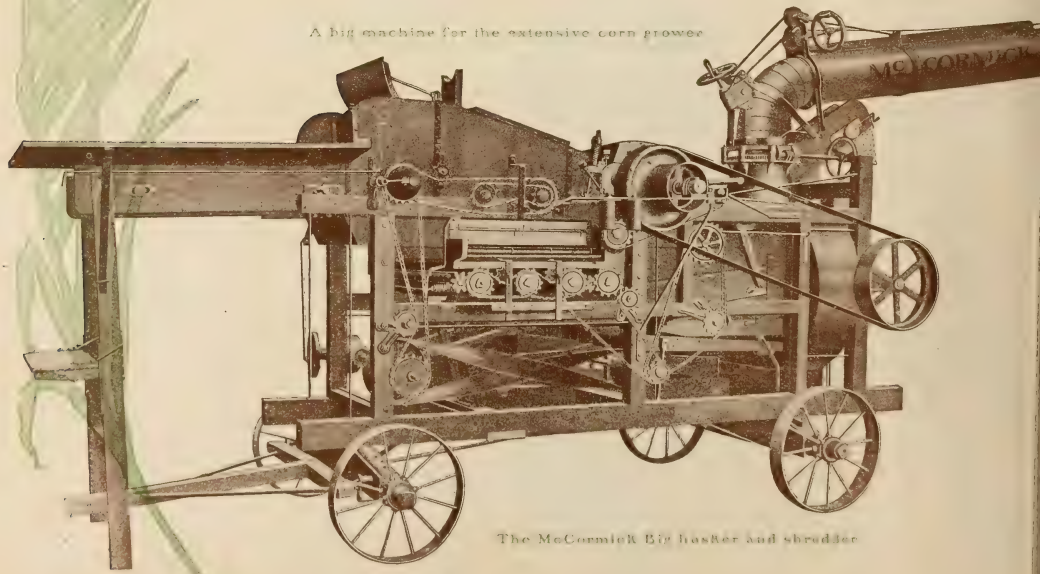
Position of the sack for saving shelled corn.

"It takes the Palm"

McCORMICK BIG HUSKER AND SHREDDER

The illustration presented herewith shows the McCormick Big husker and shredder for 1904. In general appearance and construction the Big husker and shredder is similar to that of the McCormick "Little Giant." The big machine has the same splendid type of snapping rolls, the same style of superb shredder head, the same roller clutch, and the same efficient husking rolls—in fact, the entire machine is built proportionately larger than the "Little Giant" husker and shredder, and is, therefore, built to work successfully wherever the condition of the corn will permit a machine to be operated. The new machine has eight husking rolls, improved band-cutter and self-feeder, and is equipped with a pneumatic swinging stacker of the latest improved type. The ear corn carrier is built as a part of the machine, and delivers the corn at the rear end, the shelled corn being carried along with the ears or sacked separately, as may be desired. The husking rolls are 38 inches in length; snapping rolls, 35 inches; length of blower pipe supplied with machine, 20 feet. To operate the machine successfully an engine rated at sixteen-horsepower is recommended. The McCormick Big husker and shredder is specially designed for the extensive corn grower who requires a big machine to handle his corn crop.

A big machine for the extensive corn grower



The McCormick Big husker and shredder

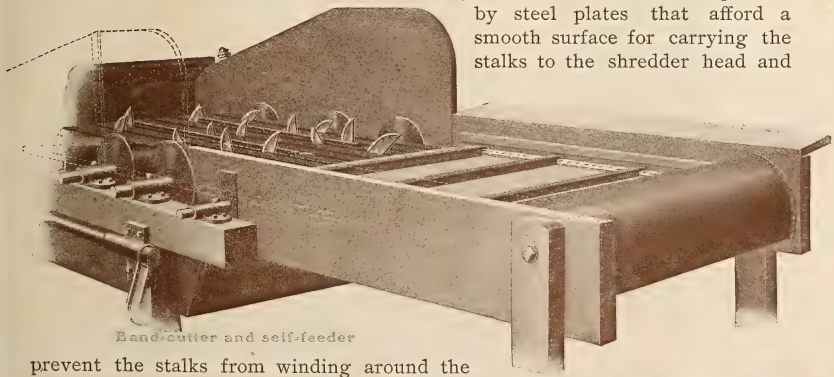
SHREDDER HEAD

The accompanying illustration shows the shredder head of the McCormick Big husker and shredder. This shredder head is similar to that used on the McCormick "Little Giant" husker and shredder; that is to say, it is a combined shredder and cutter, the serrated, radial portions of the blade splitting and cutting the stalks, while the triangular portion cuts the fodder into short lengths.

Shredder head on the McCormick Big husker and shredder

BAND-CUTTER AND SELF-FEEDER

The McCormick Big husker and shredder is equipped with an automatic band-cutter and self-feeder. The bundles are pitched on a table on both sides of the machine. The operator stands on a platform in front of the machine and places the bundles on the carrier, the slats of which are covered with a strip of iron. The corn is carried to the band-cutters, the knives of which are separated by steel plates that afford a smooth surface for carrying the stalks to the shredder head and prevent the stalks from winding around the band-cutter cylinders. The band-cutter knives separate the stalks at the same time the bands are cut, so that the stalks are spread out and carried to the shredder head in such a manner as to prevent any choking of the machine.



Band-cutter and self-feeder

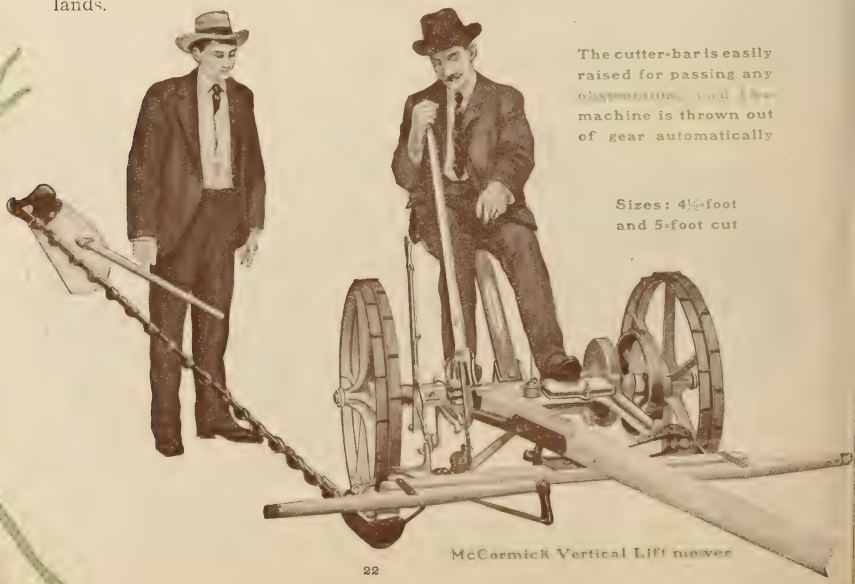
"It takes the Palm"

McCORMICK MOWERS

The McCormick line of mowers comprises the Vertical Lift, New 4, New Big 4, and Little Vertical. These machines combine the most modern features in mower construction. They are not only durable machines, but they are also exceedingly light in draft and easy to operate. They are the farmer's favorite throughout the world wherever grass is grown. In the following pages the different McCormick mowers are shown complete and in detail, accompanied by a brief description of each machine and its constituent parts.

McCORMICK VERTICAL LIFT MOWER

The McCormick Vertical Lift mower is specially designed for cutting on rough and stumpy lands. It is equipped with practical and efficient devices for raising and lowering the cutter bar when passing any obstruction, the machine being thrown in and out of gear automatically without stopping the team. The operator is thus enabled to cut close up to a tree, stump, or rock, and save both the hay and valuable time that would be lost in trying to operate an ordinary machine in a field where there are stumps or other obstructions. This machine is also splendidly adapted for general use, and works equally well over smooth and even ground, the construction of the machine combining all the essential features of the most improved mower. It is therefore everywhere known and used as an all-purpose mowing machine, for it is designed both for general cutting and for rough and stumpy lands.



The cutter-bar is easily raised for passing any obstruction, and the machine is thrown out of gear automatically

Sizes: 4½-foot and 5-foot cut

McCormick Vertical Lift mower

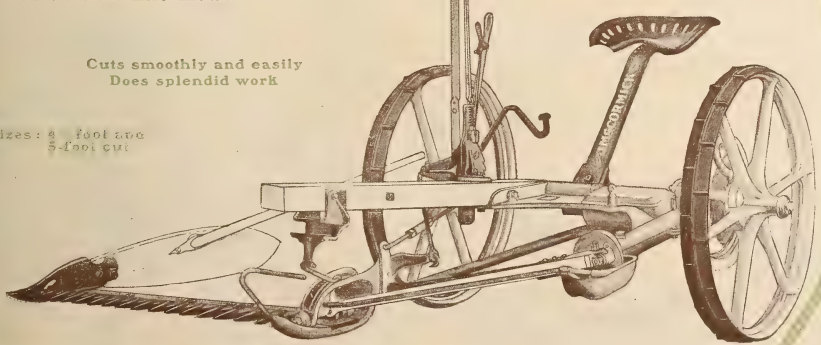
The illustration presented herewith shows the McCormick Vertical Lift mower with the cutter-bar raised for passing a stump. This machine can be operated successfully in any field where a mower can be drawn by horses, working equally well in stumpy fields or on ground that is level and free from obstructions.

McCORMICK NEW 4 MOWER

Many special features are embodied in the construction of the McCormick New 4 mower, noteworthy among which may be mentioned the frictionless bushings, symmetrical and stanch main frame, simple and powerful gears, direct-stroke pitman, and long steel wearing plates for the knife. This machine is specially designed for general use on smooth or even ground, where it will do splendid work, and where it has achieved a world-wide reputation as a grass cutter. With the exception of the device for raising and lowering the cutter-bar and throwing the machine in and out of gear automatically, the McCormick New 4 mower is identical with the McCormick Vertical Lift mower.

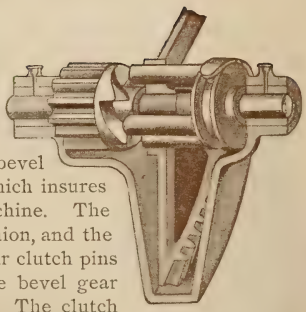
Cuts smoothly and easily
Does splendid work

Sizes: 4-foot cut
5-foot cut



McCormick New 4 mower

BEVEL GEAR AND CLUTCH



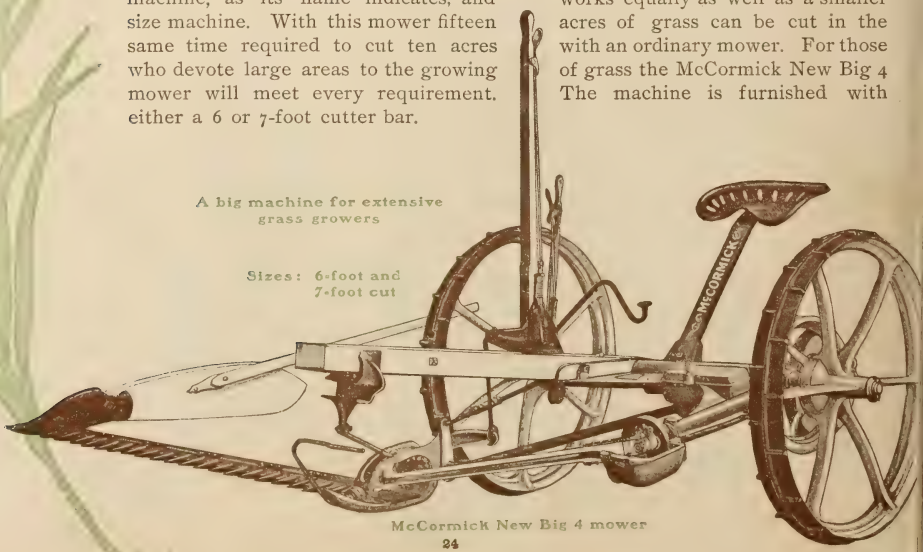
McCormick mowers are built with strong gearings. The spur pinion is securely keyed to the countershaft which turns in removable bushings. The bevel gear is very accurately made and bored, which insures an easy running and almost noiseless machine. The gear is entirely separated from the spur pinion, and the machine is thrown into gear by means of four clutch pins which pass through holes in the hub of the bevel gear and engage the ratchets of the spur pinion. The clutch is controlled by the shipper handle which is operated by the foot of the driver. The movement of the shipper handle causes the pins to instantly engage the ratchets, thus imparting immediate cutting action to the machine when it is thrown in gear.

McCORMICK NEW BIG 4 MOWER

The McCormick New Big 4 mower is the largest grass cutting machine in the McCormick line, being specially designed for agriculturists who are extensive grass growers. This machine is built on the same principle as the McCormick New 4 mower, the only difference being that the frame, bar, cutter bar, and working parts are proportionately larger and stronger. The New Big 4 is a large machine, as its name indicates, and works equally as well as a smaller size machine. With this mower fifteen acres of grass can be cut in the same time required to cut ten acres with an ordinary mower. For those who devote large areas to the growing of grass the McCormick New Big 4 mower will meet every requirement. The machine is furnished with either a 6 or 7-foot cutter bar.

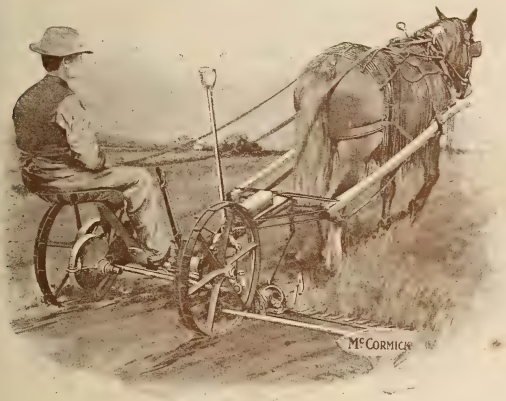
A big machine for extensive grass growers

Sizes: 6-foot and 7-foot cut



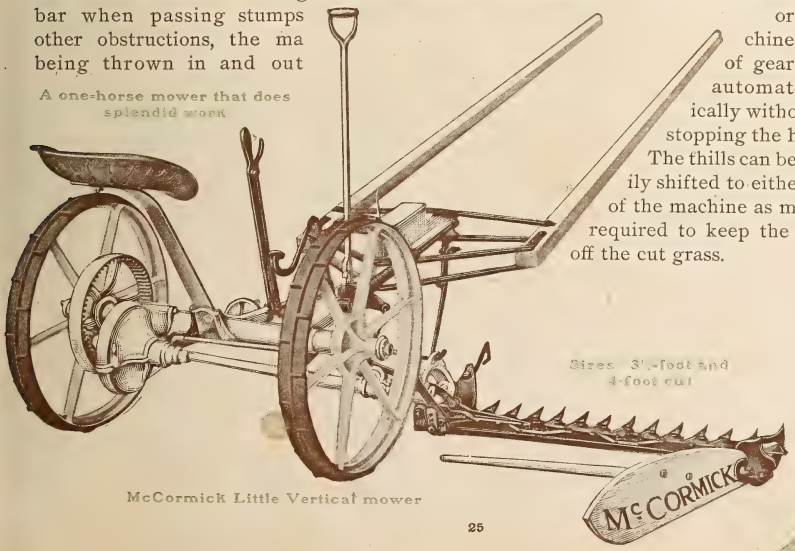
McCormick New Big 4 mower

McCORMICK LITTLE VERTICAL MOWER



The McCormick Little Vertical mower in both design and construction is very similar to the regular Vertical Lift mower, the chief difference being in the size of the machine. This small mower is built especially to be used on small farms or lawns and in parks, orchards, or cemeteries. Where only a limited amount of grass is grown it will answer the purpose of a larger size machine. Being drawn with only one horse, the Little Vertical mower can be used for cutting in places where a large machine could not be operated. By means of an efficient foot-lift and raising device the driver is enabled to raise the cutter-bar when passing stumps or other obstructions, the machine being thrown in and out of gear automatically without stopping the horse. The thills can be readily shifted to either side of the machine as may be required to keep the horse off the cut grass.

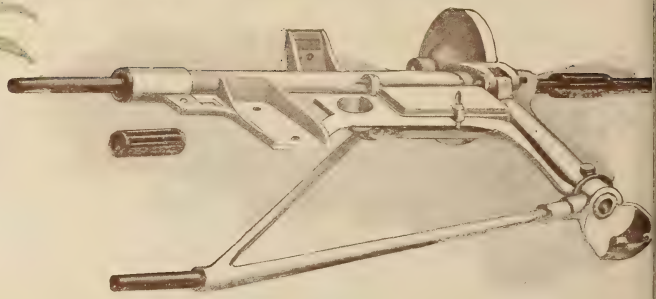
A one-horse mower that does splendid work



Sizes 3½-foot and 4-foot cut

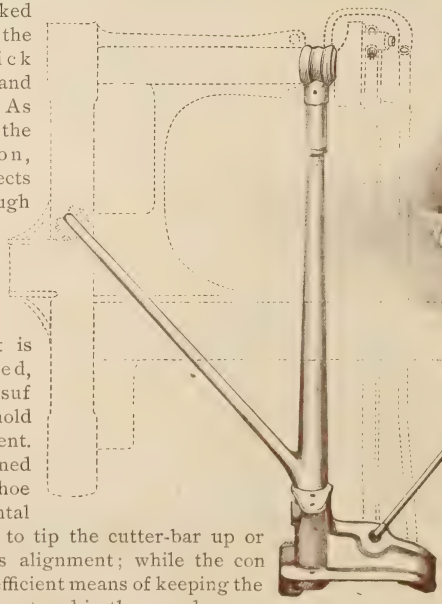
McCormick Little Vertical mower

MAIN FRAME



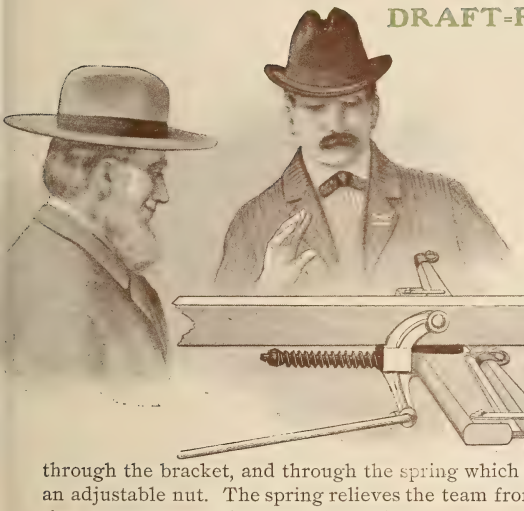
In the construction of the McCormick mowers the main frame is a very important feature, inasmuch as it is the foundation of the machine. The McCormick mower main frame is made in one piece, which insures solidity and strength. All the bearings are fitted with removable bushings in which the shaftings fit accurately. The best material is used in casting the McCormick mower main frame, and hence there is no twisting or warping possible — the shafts never bind, and the life of the machine is greatly prolonged.

FORKED COUPLING



The forked coupling on the McCormick mower is hand forged. As shown in the illustration, one prong connects at the side through which the crank shaft passes, while the other extends to the rear of the frame, where it is securely fastened, thus insuring sufficient strength and rigidity to hold the cutter-bar in perfect alignment. The end of the coupling bar is turned accurately to receive the inside shoe hinge, furnishing a long horizontal bearing, which makes it possible to tip the cutter-bar up or down easily without affecting its alignment; while the connection of the front fork affords an efficient means of keeping the knife accurately adjusted and centered in the guards.

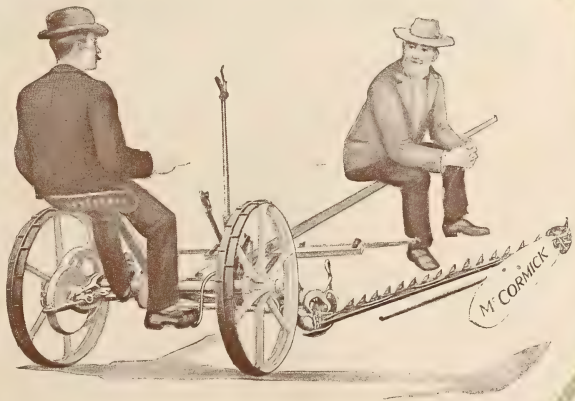
DRAFT-ROD



The draft-rod on the McCormick mower connects with the front end of the inside shoe and is joined to the draft bracket, thereby securing an upward pull on the shoe, and a double hitch on the machine. The double-trees are inserted in a clevis from which extends a strong rod that passes through the bracket, and through the spring which is held in position by an adjustable nut. The spring relieves the team from any severe jars and thus prevents shoulder galls and bruises.

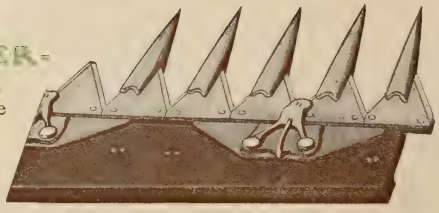
FOOT-LIFT

The foot-lift on the McCormick mower is both efficient and easy to manipulate. To bring it into action requires only a slight downward pressure of the foot, as a heavy spring aids in lifting and carries practically all the weight of the bar. The gag lever, to which the foot-lift attaches, forms a kind of fulcrum, which causes the bar to lift easily and enables the driver to hold the cutter-bar at any intermediate height, so that when turning a corner or backing up the mower, the bar is easily handled by means of the foot-lever, thus enabling the driver to use both hands to guide the team. This is a very serviceable feature, and is greatly appreciated when cutting in a rough or stumpy field, where it is necessary to frequently raise the cutter-bar.



The McCormick foot-lift is practical

CUTTER-BAR

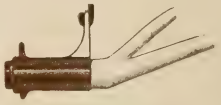


Long wearing plates

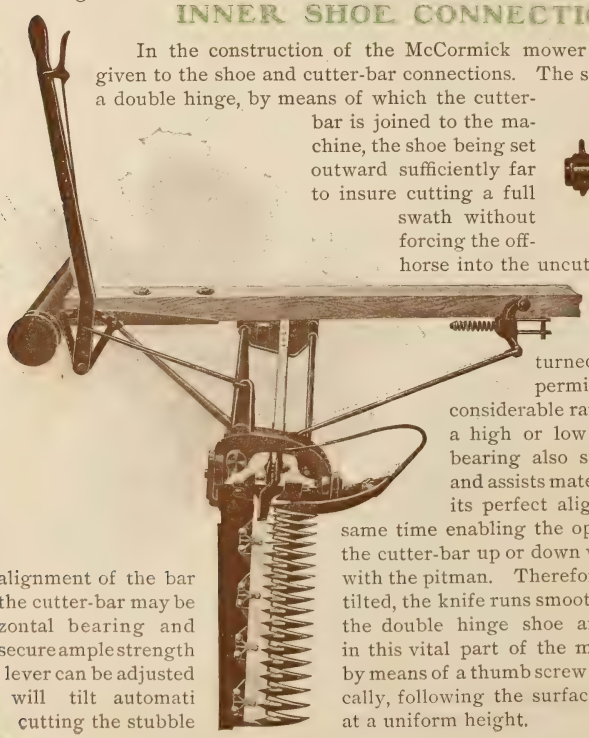
The cutter-bar on the McCormick mower is made of heavy cold rolled steel, with a thick rib extending the entire length of the bar, which makes it strong, rigid, and durable. The accompanying illustration also shows the knife back and long wearing plates which are made of high grade steel. The knife is held in its proper position directly against the ledger plates by substantial holders, thus imparting a shear cut to the knife, which, in consequence, runs steadily and cuts smoothly, greatly lessening the draft of the machine. The wearing plates also serve to back up the knife to meet the resistance while cutting.

INNER SHOE CONNECTIONS

In the construction of the McCormick mower special attention is given to the shoe and cutter-bar connections. The shoe is heavy and has a double hinge, by means of which the cutter-bar is joined to the machine, the shoe being set outward sufficiently far to insure cutting a full swath without forcing the off-horse into the uncut grass. The shoe is made with an extra long horizontal bearing, perfectly turned and fitted, which permits the bar to have a considerable range of tilt for cutting a high or low stubble. The long bearing also strengthens the shoe and assists materially in maintaining its perfect alignment, while at the same time enabling the operator to readily tilt the cutter-bar up or down without affecting the with the pitman. Therefore, at whatever angle tilted, the knife runs smoothly. The long hori- the double hinge shoe are heavy enough to in this vital part of the machine. The tilting by means of a thumb screw so that the cutter-bar cally, following the surface of the ground and at a uniform height.



A long horizontal shoe-bearing



alignment of the bar
the cutter-bar may be
zontal bearing and
secure ample strength
lever can be adjusted
will tilt automati
cutting the stubble

McCORMICK KNIFE AND TOOL GRINDER

Changed to a tool grinder

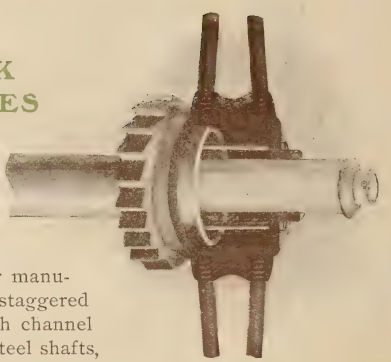
The accompanying illustrations show the McCormick knife and tool grinder adjusted for knife grinding, and also changed to a tool grinder. Unless the knife is kept sharp it is impossible to secure the best results with a mower, and the McCormick grinder enables the operator to sharpen the knife in considerably less time than is possible with the ordinary grindstone. Inasmuch as the grinder can readily be attached to the mower wheel, it is convenient for use in the field. For grinding tools a cylindrical stone is furnished on special order, and for the gumming of saws a stone is also furnished on special order.

Adjusting the knife grinder

McCORMICK REAPING ATTACHMENT

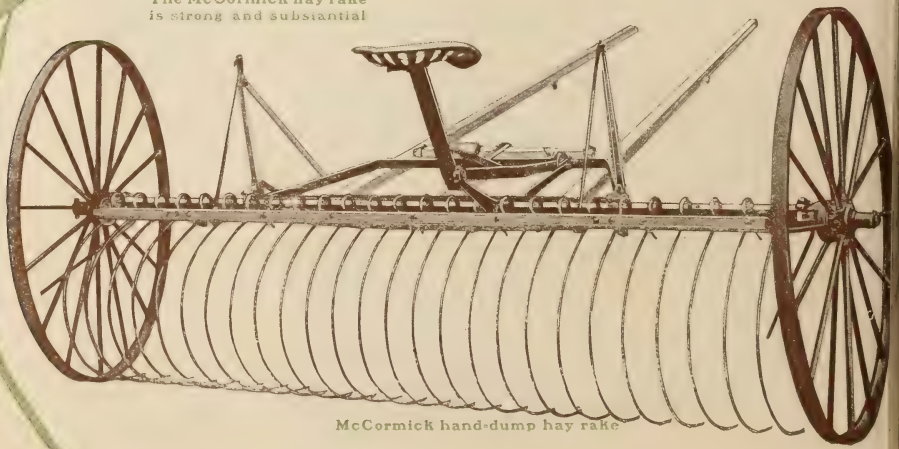
The illustration presented herewith shows the McCormick reaping attachment at work in the field. This attachment is designed for agriculturists who do not require a binder or a reaper to harvest their small grain. The attachment is easily connected to the mower, and the farmer, with the aid of a helper, can harvest several acres of grain in a day. The attachment consists of a slatted platform, inside and outside dividers, seat, and rake. The gavels of grain are formed on the platform which is held obliquely by the operator. When enough grain has accumulated, the platform is dropped to a horizontal position, and the gavel is discharged.

McCORMICK HAY RAKES

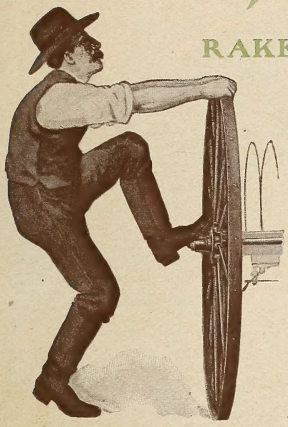


The McCormick hay rakes are simple in design, strong in construction, and practical in the field. They are made in both self-dump and hand-dump styles, and the best material is used in their manufacture. The wheels are made with staggered spokes, and fitted with a heavy two-inch channel steel tire, while the hubs turn on large steel shafts, the length and size of the hub giving abundant bearing surface which insures lasting wearing qualities. Moreover, the hubs are fitted with removable boxes, so that after years of service, when the wheels become worn, they can be replaced at a trifling cost. High carbon angle steel is used in the manufacture of the frame, and the rake head is trussed so that it will not sag. The frame and rake head are connected by strong and heavy malleable hinges, which, with ordinary usage, will not break or wear out. The teeth are made of the best quality of spring steel, which combines great strength and resiliency, while the points are so shaped that they will get all the hay without digging into the ground or picking up stones. By simply adjusting the shafts either one or two horses can be used to draw the rake. McCormick rakes are made in the following sizes: 6½, 8, 9, 10, and 12-foot widths.

The McCormick hay rake is strong and substantial



McCormick hand-dump hay rake

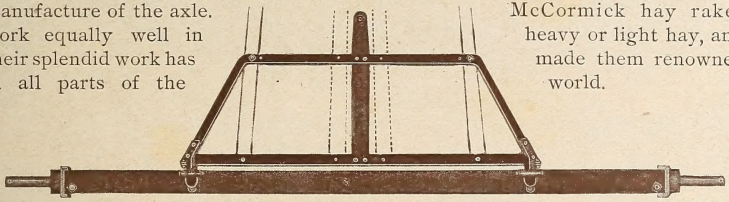


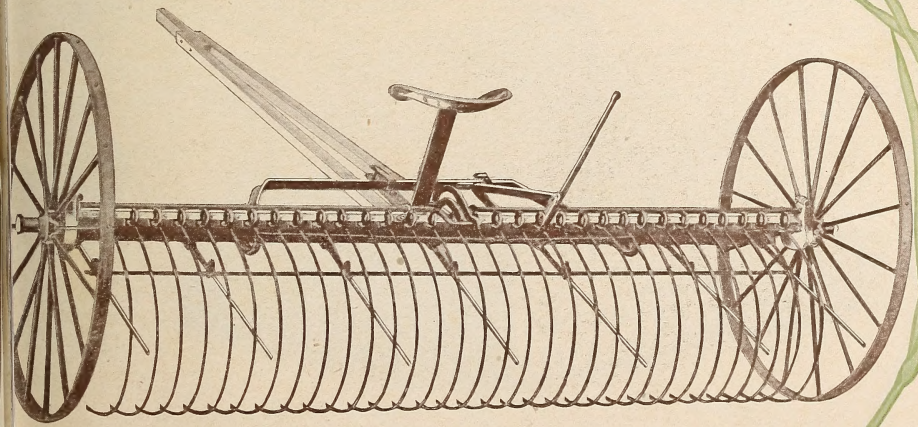
RAKE WHEELS

The wheels on the McCormick hay rakes are built to stand the roughest usage encountered in raking over any ground. The spokes are staggered and also have an enlarged end which is tapered and threaded, by means of which a drive fit is secured in addition to the holding strength of the threads. The wheels are interchangeable, one with the other—there are no rights or lefts. The hubs are fitted with removable boxes, which, when worn, can be replaced at a very slight cost, making practically a new wheel.

RAKE HEAD AND FRAME

The rake head and frame are hinged together with heavy malleable hinges which are securely riveted to the head and frame. The rake head is trussed so that it will not sag. Special steel having a fine and even texture is used in the manufacture of the axle. McCormick hay rakes work equally well in heavy or light hay, and their splendid work has made them renowned in all parts of the world.





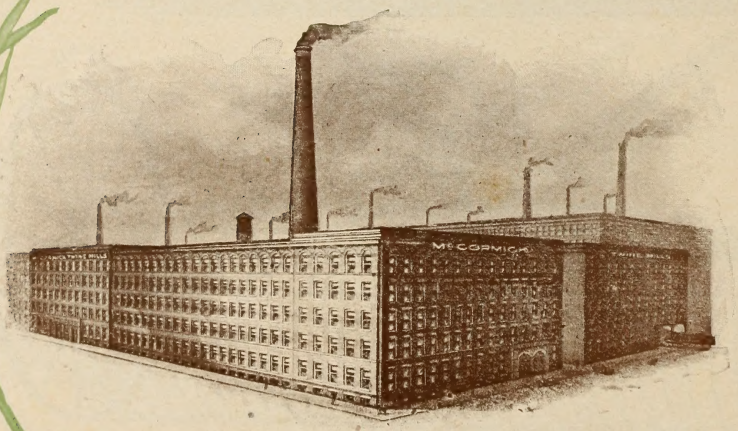
McCormick self-dump hay rake

"It takes the Palm"

McCORMICK BINDER TWINE

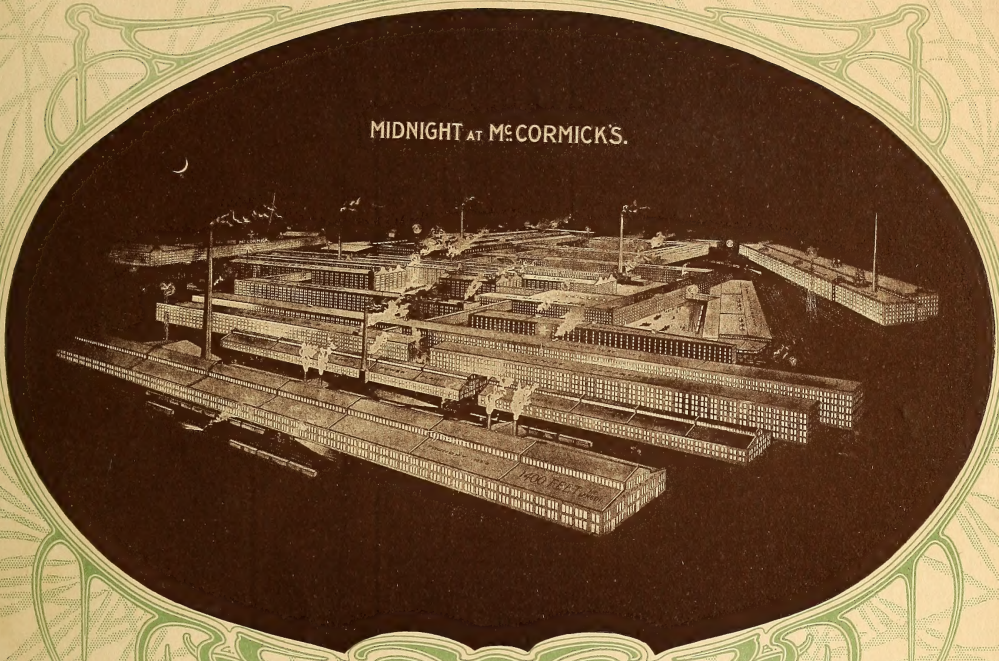
The bulk of binder twine is made from sisal and manila fibres. Manila fibre is produced from the manila plant or tree, which grows in the Philippine Islands, and attains a height of fifteen or twenty feet. Sisal fibre is produced from a plant commonly known as henequen, which is grown extensively in Yucatan. The pronounced excellence of McCormick twine is largely due to exceptional facilities for securing the best grades of both manila and sisal fibres. The binder twine manufactured at the McCormick twine mills is the very best that can be produced. It is spun evenly, is full length, and has full strength. In brief, the McCormick brand represents the highest quality in binder twine that can be produced with the best grades of raw material, the latest improved machinery, and the most skilled labor. The several brands of McCormick manila and sisal twine are: Sisal, Standard, Standard Manila, Manila, and Pure Manila, each brand being represented by a differently colored tag.

McCormick
Sisal, Standard, Standard Manila, and Pure Manila
twine is full length and full strength



The McCormick twine mills

The world-renowned McCormick Diamond brands


MIDNIGHT AT Mc CORMICK'S.

BRANCH HOUSES FOR McCORMICK MACHINES.

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Albany, N. Y.
Atlanta, Ga.
Aurora, Ill.
Alliance, Neb.
Albert Lea, Minn.
Aberdeen, S. D.
Boston, Mass.
Buffalo, N. Y.
Baltimore, Md.
Charlotte, N. C.
Cincinnati, Ohio.
Columbus, Ohio.
Cleveland, Ohio.
Concordia, Kan.
Council Bluffs, Ia.
Cedar Falls, Ia.
Detroit, Mich.
Davenport, Ia.
Dallas, Tex.
Des Moines, Ia
Denver, Colo.
Dubuque, Ia.
Elmira, N. Y.
Evansville, Ind.
Eau Claire, Wis.
East St. Louis, Ill.
Ft. Wayne, Ind.
Fon du Lac, Wis.
Ft. Scott, Kan.
Ft. Dodge, Ia.
Fargo, N. D.
Grand Rapids, Mich.
Green Bay, Wis.
Grand Forks, N. D.
Harrisburg, Pa.
Hutchison, Kan.
Houston, Tex.
Hastings, Neb.
Helena, Mont.
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Madison, Wis.
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Montgomery, Ala.
New Orleans, La.
Nashville, Tenn.
Ogdensburg, N. Y.
Oklahoma City, Okla.
Omaha, Neb.
Ottumwa, Ia.
Ogden, Utah.
Philadelphia, Pa.
Pittsburg, Pa.
Parkersburg, W. Va.
Peoria, Ill.
Portland, Ore.
Quincy, Ill.
Richmond, Va.
Richmond, Ind.
Rockford, Ill.
Syracuse, N. Y.
South Bend, Ind.
Saginaw, Mich.
Springfield, Ill.
St. Louis, Mo.
Springfield, Mo.
St. Joseph, Mo.
Salina, Kan.
Sioux City, Ia.
Sheldon, Ia.
St. Cloud, Minn.
Sioux Falls, S. D.
San Francisco, Cal.
Spokane, Wash.
Toledo, Ohio.
Terre Haute, Ind.
Topeka, Kan.
Winona, Minn.
Wichita, Kan.
Watertown, S. D.
Wahpeton, N. D.

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